

# Ashok Kumar Pradhan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93  
papers

1,945  
citations

25  
h-index

41  
g-index

114  
ext. papers

2,727  
ext. citations

4.6  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
93	Accurate Superimposed Component Estimation for Improved Relay Performance During Power Swing. <i>IEEE Systems Journal</i> , <b>2022</b> , 1-11	4.3	0
92	Subcycle transmission line protection using time-domain similarity measure. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 137, 107766	5.1	0
91	Bus protection in systems with inverter interfaced renewables using composite sequence currents. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 136, 107665	5.1	0
90	Wavelet probability distribution mapping for detection and correction of dynamic data injection attacks in WAMS. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 134, 107447	5.1	0
89	Time-Domain Techniques for Line Protection Using Three-Dimensional Cartesian Coordinates. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	1
88	Protection of Networked Microgrids using Relays with Multiple Setting Groups. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	2
87	Time-Domain Directional Relaying Using Only Fault Current for Distribution System with PV Plant. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	0
86	An Adaptive Underfrequency Load Shedding Scheme in the Presence of Solar Photovoltaic Plants. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 1235-1244	4.3	5
85	Adaptive Distance Relaying for Distribution Lines Connecting Inverter-Interfaced Solar PV Plant. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2300-2309	8.9	11
84	PCA-LSTM Learning Networks With Markov Chain Models for Online Classification of Cyber-Induced Outages in Power System. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3948-3957	4.3	1
83	Adaptive Fault Type Classification for Transmission Network Connecting Converter-Interfaced Renewable Plants. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 4025-4036	4.3	5
82	Precise Traveling Wave-Based Transmission Line Fault Location Method Using Single-Ended Data. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 5197-5207	11.9	16
81	Protecting Distribution Systems With Inverter-Interfaced PV Plants Using Q-Axis Components. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-11	4.3	2
80	Adaptive Unit Protection for Lines Connecting Large Solar Plants Using Incremental Current Ratio. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	2
79	A Hybrid Time-Domain Protection Scheme for Series Compensated Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	0
78	A Cosine Similarity-Based Centralized Protection Scheme for dc Microgrids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 5646-5656	5.6	4
77	Travelling Wave Based Directional Relaying Without Using Voltage Transients. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 3274-3277	4.3	0

76	A Traveling Wave Based Method for Protection of Shunt Capacitor Bank. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	3
75	A Local measurement based protection technique for distribution system with photovoltaic plants. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 996-1003	2.9	3
74	Model-free angle stability assessment using wide area measurements. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 120, 105972	5.1	1
73	Adaptive Distance Protection for Lines Connecting Converter-Interfaced Renewable Plants. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 1-1	5.6	10
72	A Positive Sequence Relaying Method for Solar Photovoltaic Integrated Distribution System. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 1-1	4.3	3
71	Detection and Classification of Faults in Solar PV Array Using Thevenin Equivalent Resistance. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 644-654	3.7	15
70	Cosine Similarity Based Directional Comparison Scheme for Subcycle Transmission Line Protection. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 2159-2167	4.3	9
69	Model Free Traveling Wave Based Fault Location Method for Series Compensated Transmission Line. <i>IEEE Access</i> , <b>2020</b> , 8, 193128-193137	3.5	5
68	Time-Domain Protection and Fault Location of Wye-Connected Shunt Capacitor Banks Using Superimposed Current and Differential Voltage. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 1-1	4.3	3
67	Mitigating Subsynchronous Resonance Using Synchrophasor Data Based Control of Wind Farms. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 364-376	4.3	14
66	Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 362-373	7	11
65	Resilient protection scheme preserving system integrity during stressed condition. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 3188-3194	2.5	5
64	Online voltage stability and load margin assessment using wide area measurements. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 108, 392-401	5.1	22
63	Voltage control of PV inverter connected to unbalanced distribution system. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 1587-1594	2.9	19
62	Real-Time Event Classification in Power System With Renewables Using Kernel Density Estimation and Deep Neural Network. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 6849-6859	10.7	12
61	A Spectrum Similarity Approach for Identifying Coherency Change Patterns in Power System Due to Variability in Renewable Generation. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 3769-3779	7	4
60	DC Ring Bus Microgrid Protection Using the Oscillation Frequency and Transient Power. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 875-884	4.3	36
59	Real-Time Multiple Event Detection and Classification in Power System Using Signal Energy Transformations. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1521-1531	11.9	37

58	MVDC Microgrid Protection Using a Centralized Communication With a Localized Backup Scheme of Adaptive Parameters. <i>IEEE Transactions on Power Delivery</i> , <b>2019</b> , 34, 869-878	4.3	21
57	Investigating the impact of protection system reinforcement cost on the consumers associated with renewable integrated distribution network. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 1572-1588	2.5	3
56	Travelling-wave-based protection of transmission line using single-end data. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 4659-4666	2.5	6
55	Wide Area Predictive Control of Power System Considering Communication Delay and Data Drops. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 3243-3253	11.9	11
54	A Traveling Wave-Based Fault Location Method Using Unsynchronized Current Measurements. <i>IEEE Transactions on Power Delivery</i> , <b>2019</b> , 34, 505-513	4.3	56
53	Supervisory Protection of Islanded Network Using Synchrophasor Data. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 1772-1780	10.7	4
52	Faulted section identification for DC distribution systems using smart meter data. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 1030-1037	2.5	6
51	Real-Time Analysis of Power System Protection Schemes Using Synchronized Data. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 3831-3839	11.9	12
50	Real-time event identification using synchrophasor data from selected buses. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 1664-1671	2.5	5
49	Protection of Smart DC Microgrid With Ring Configuration Using Parameter Estimation Approach. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 6328-6337	10.7	54
48	Power Network Protection Using Wide-Area Measurements Considering Uncertainty in Data Availability. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 3358-3368	4.3	18
47	Adaptive Zone-1 Setting Following Structural and Operational Changes in Power System. <i>IEEE Transactions on Power Delivery</i> , <b>2018</b> , 33, 560-569	4.3	14
46	A Superimposed Current Based Unit Protection Scheme for DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 3917-3919	10.7	37
45	Adaptive Relay Setting for Protection of Distribution System with Solar PV <b>2018</b> ,		6
44	An Accurate Fault Location Method for Multi-Circuit Series Compensated Transmission Lines. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 572-580	7	30
43	Faulty Line Identification Algorithm for Secured Backup Protection Using PMUs. <i>Electric Power Components and Systems</i> , <b>2017</b> , 45, 491-504	1	7
42	. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 4843-4850	7	26
41	Testing a communication assisted protection scheme for AC microgrid in a laboratory setup <b>2017</b> ,		1

40	Wide-area measurement system-based supervision of protection schemes with minimum number of phasor measurement units. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	2
39	Adaptive E-plane line differential protection. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 2468-2477	2.5	10
38	Synchrophasor-Based Intelligent Autoreclosing Scheme for Series Compensated Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , <b>2017</b> , 32, 2255-2262	4.3	17
37	Parameter Estimation of Resonant Fault Current Limiter for Protection and Stability Analysis. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 2288-2295	7	16
36	Supervising distance relay during power swing using synchrophasor measurements. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 4136-4145	2.5	5
35	Model Verification of Fixed Series Compensation Devices Using Synchronized Data. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 174-181	4.3	8
34	Accurate Phasor Estimation During Power Swing. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 130-137	4.3	14
33	Improved Transverse Current Differential Protection Resistant to Power Swing. <i>INAE Letters</i> , <b>2016</b> , 1, 53-58	0.7	1
32	Guest Editorial Special Section on Frontiers of Power System Protection. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 1785-1786	4.3	0
31	Reducing current transformer saturation effect in phasor measurement unit. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 1397-1407	2.2	7
30	A Transfer Trip Scheme to Supervise Zone 3 Operation. <i>INAE Letters</i> , <b>2016</b> , 1, 9-13	0.7	
29	A Three-Terminal Line Protection Scheme Immune to Power Swing. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 999-1006	4.3	18
28	An Accurate Noniterative Fault-Location Technique for Low-Voltage DC Microgrid. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 475-481	4.3	77
27	. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 228-235	4.3	30
26	PMU based real time power system state estimation using ePHASORsim <b>2016</b> ,		2
25	Online identification of protection element failure using wide area measurements. <i>IET Generation, Transmission and Distribution</i> , <b>2015</b> , 9, 115-123	2.5	15
24	Secured Zone 3 Protection During Stressed Condition. <i>IEEE Transactions on Power Delivery</i> , <b>2015</b> , 30, 89-96	4.3	56
23	Power-Swing Detection Using Moving Window Averaging of Current Signals. <i>IEEE Transactions on Power Delivery</i> , <b>2015</b> , 30, 368-376	4.3	71

22	Wide Area backup protection using weighted apparent impedance <b>2015</b> ,		1
21	Adaptive Direct Underreaching Transfer Trip Protection Scheme for the Three-Terminal Line. <i>IEEE Transactions on Power Delivery</i> , <b>2015</b> , 30, 2383-2391	4-3	15
20	Synchrophasor-Assisted Zone 3 Operation. <i>IEEE Transactions on Power Delivery</i> , <b>2014</b> , 29, 660-667	4-3	92
19	Wide-Area Measurement-Based Backup Protection for Power Network With Series Compensation. <i>IEEE Transactions on Power Delivery</i> , <b>2014</b> , 29, 1970-1977	4-3	91
18	Wide area measurement based protection support during power swing. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2014</b> , 63, 546-554	5-1	26
17	Synchronised data-based adaptive backup protection for series compensated line. <i>IET Generation, Transmission and Distribution</i> , <b>2014</b> , 8, 1979-1986	2-5	17
16	Directional Relaying During Single-Pole Tripping Using Phase Change in Negative-Sequence Current. <i>IEEE Transactions on Power Delivery</i> , <b>2013</b> , 28, 1548-1557	4-3	34
15	Directional relaying for double circuit line with series compensation. <i>IET Generation, Transmission and Distribution</i> , <b>2013</b> , 7, 405-413	2-5	28
14	Directional Relaying in the Presence of a Thyristor-Controlled Series Capacitor. <i>IEEE Transactions on Power Delivery</i> , <b>2013</b> , 28, 628-636	4-3	21
13	A Fault Detection Technique for the Series-Compensated Line During Power Swing. <i>IEEE Transactions on Power Delivery</i> , <b>2013</b> , 28, 714-722	4-3	91
12	Adaptive distance relay setting for series compensated line. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2013</b> , 52, 198-206	5-1	28
11	Synchrophasor-Assisted Prediction of Stability/Instability of a Power System. <i>International Journal of Emerging Electric Power Systems</i> , <b>2013</b> , 14, 1-8	1-4	4
10	Differential Power-Based Symmetrical Fault Detection During Power Swing. <i>IEEE Transactions on Power Delivery</i> , <b>2012</b> , 27, 1557-1564	4-3	74
9	Power quality disturbances classification using support vector machines with optimised time-frequency kernels. <i>International Journal of Power Electronics</i> , <b>2012</b> , 4, 181	0-2	7
8	Detecting fault during power swing for a series compensated line <b>2011</b> ,		11
7	Robust Detection and Analysis of Power System Oscillations Using the Teager-Kaiser Energy Operator. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 323-333	7	80
6	Adaptive Phasor and Frequency-Tracking Schemes for Wide-Area Protection and Control. <i>IEEE Transactions on Power Delivery</i> , <b>2011</b> , 26, 744-753	4-3	104
5	An Integrated Approach for Directional Relaying of the Double-Circuit Line. <i>IEEE Transactions on Power Delivery</i> , <b>2011</b> , 26, 1783-1792	4-3	37

4	A Positive-Sequence Directional Relaying Algorithm for Series-Compensated Line. <i>IEEE Transactions on Power Delivery</i> , <b>2010</b> , 25, 2288-2298	4.3	69
3	Fuzzy Partitioning of a Real Power System for Dynamic Vulnerability Assessment. <i>IEEE Transactions on Power Systems</i> , <b>2009</b> , 24, 1356-1365	7	94
2	Automatic Segmentation of Large Power Systems Into Fuzzy Coherent Areas for Dynamic Vulnerability Assessment. <i>IEEE Transactions on Power Systems</i> , <b>2007</b> , 22, 1974-1985	7	83
1	Maximum efficiency of flexible AC transmission systems. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2006</b> , 28, 581-588	5.1	6